瓷片電容器規格承認書
APPROVAL SPECIFICATION FOR DISC CERAMIC CAPACITORS

客戶 CUSTOMER	立創商城		
客戶料號 CUSTOMER P/N			
客戶規格描述 CUST. SPEC			
規格描述 DESCRIPTION	50V/563/Z/F2.54/直脚/L18/酚醛(黃)/Y5V(III)/4D		
產品編碼 PART NUMBER	CC1H563ZA1FD3F4D1000		
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批 準 APPROVED BY	審核 CHECK BY	制訂 FORMULATE BY	批 準 APPROVED BY	審核 CHECK BY
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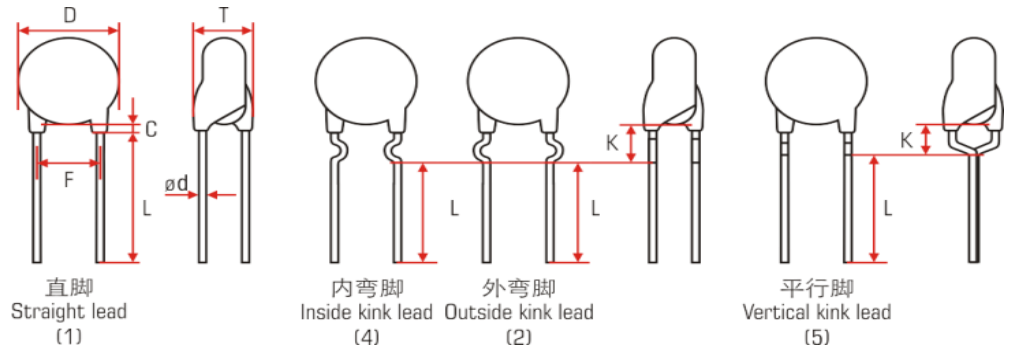
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請確保我們的產品安裝到您的產品上前，已根據您的需求進行了評估。
Please make sure that your product has been evaluated in view of your specifications with our product being mounted to your product.
請您在使用我們的產品時，不要偏離此標準。
You are requested not to use our product deviating from this specification.

瓷片電容器規格承認書
APPROVAL SPECIFICATION FOR DISC CERAMIC CAPACITORS

1. 規格表
DATA SHEET



產品編碼 Part number		CC1H563ZA1FD3F4D1000
規格描述 Description		50V/563/Z/F2.54/直脚/L18/酚醛(黄)/Y5V(III)/4D
客戶料號 Customer P/N		
介質類別 Dielectric class		Class 3 (Surface insulation type)
額定電壓 Rated voltage		50VDC
電容量 Capacitance		0.056 uF +80%/-20% @ 1kHz 0.1V 25ºC
損耗角正切 Tangent of loss angle		0.05 max @ 1kHz 0.1V 25ºC
耐電壓 Testing voltage		75.0 V (Charge/discharge 50mA max), 3s, PASS
絕緣電阻 Insulation resistance		447MΩ min @ 50V 60s, ≤RH70%
温度特性 Temperature characteristics		Y5V(III) ΔC/C: +22/-82% @ -25ºC~85ºC
尺寸 DIMENSIONS	D (Diameter)	5.3 mm±0.6mm
	T (Thickness)	2.6 mm±0.6mm
	F (Lead spacing)	2.54 mm±0.8mm
	L (Lead length)	18.0 mm±5.0mm
	ød (Lead diameter)	0.40 mm±0.10mm
	C (Coating rundown on lead)	1.5 mm max
標誌 Marking		563

2. 總則
GENERAL

1) 本規格書適用於額定電壓不超過直流10kV或最大標稱電容量爲0.22uF的電子設備用瓷片電容器。
This specification applies to the disc ceramic capacitors for electronic equipment with a rated voltage not exceeding DC 10kV or 0.22uF of maximum nominal capacitance .
2) 溫度補償型(1類瓷)電容器是專門設計並用在低損耗、電容量穩定性高或要求溫度系數有明確規定的諧振電路中的一種電容器，例如，在電路中作溫度補償之用。
Temperature compensation (Class 1) ceramic capacitor specially designed and suited for resonant circuit application where low losses and high stability of capacitance are essential or where a precisely defined temperature coefficient is required, for example for compensating temperature effects in the circuit.

該類陶瓷介質是由標稱溫度系數（alpha）來確定，如NP0、N750、SL等等。
The ceramic dielectric is defined by its rated temperature coefficient (alpha), such as NP0, N750, SL, etc.。
3) 高介電常數型(2類瓷)電容器是是適用於作旁路、耦合或用在對損耗和電容量穩定性要求不高的電路中的具有高介電常數的一種電容器。
High dielectric (Class 2) ceramic capacitor which has a dielectric with a high permittivity and is suitable for by-pass and coupling applications or for frequency discriminating circuits where low losses and high stability of capacitance are not of major importance.
該類陶瓷介質是以在類別溫度範圍內電容量非線性變化來表征，如Y5P、Y5U、Y5V等等。
The ceramic dielectric is characterized by the non-linear change of capacitance over the category temperature range, such as Y5P, Y5U and Y5V etc.
4) 可適用於自動化生產線
Cost-saving automatic insertion available
5) 符合RoHS 2.0、REACH標準，無鹵。
Comply with RoHS 2.0 & REACH, halogen-free available

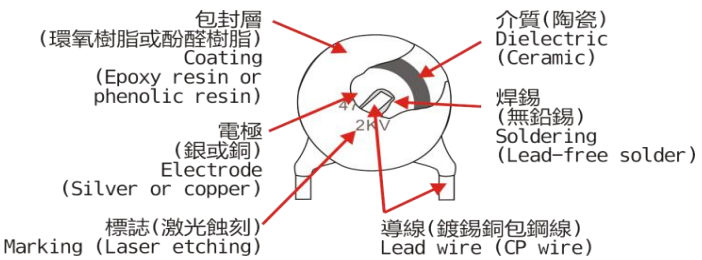
3. 適用標準
APPLICABLE STANDARD

本產品符合下列標準，且本規格書的相關內容引用以下標準，當雙方對此存在爭議時，可依以下標準進行仲裁。
This product complies with the following standards, and the relevant content of this specification refers to the following standards, when the two sides in dispute, the following criteria for arbitration.

GB/T 2693-2001	電子設備用固定電容器 第1部分 總規範(IDT IEC 60384-1) Fixed capacitors for use in electronic equipmen — Part 1: Generic specification (IDT IEC 60384-1)
GB/T 5966-2011	電子設備用固定電容器 第8部分 分規範 1類瓷介固定電容器(IDT IEC 60384-8) Fixed capacitors for use in electronic equipmen — Part 8: Sectional specification: Fixed capacitors of ceramic dielectric, Class 1 (IDT IEC 60384-8)
GB/T 5968-2011	電子設備用固定電容器 第9部分 分規範 2類瓷介固定電容器(IDT IEC 60384-9) Fixed capacitors for use in electronic equipmen — Part 9: Sectional specification: Fixed capacitors of ceramic dielectric, Class 2 (IDT IEC 60384-9)

4. 結構
STRUCTURE

本產品結構如下圖所示，外部包封層爲環氧樹脂（藍色）或酚醛樹脂（土黃色），內部介質爲陶瓷，銀電極，導線爲鍍錫銅包鋼線，電極與導線采用無鉛錫焊接而成，經過激光打標而成。
The structure of this product is shown in the following figure, external coating layer to epoxy resin (blue) or phenolic resin (yellowish), internal dielectric for ceramics, silver electrodes, lead wires for tin-plated copper clad steel wire, electrodes and lead wires using lead-free tin soldering, through laser marking.



5. 產品編碼 PART NUMBER

本公司產品編碼方式，舉例說明如下：
The product part number representation of the company, examples are as follows：

CC	1H	563	Z	A1	F	D	3F	4D1	000
系列 Series	額定直流電壓 Rated dc voltage	標稱容量 Nominal capacitance	容量偏差 Cap. tolerance	引線成型方式 Lead format	編帶包裝或腳長 Taping packing or Lead length	包封 Coating	温度特性 Temperature characteristics	內部識別碼 Inter identification code	標誌 Marking

■ 系列 Series
CC: 瓷片電容器 Disc ceramic capacitors

■ 額定直流電壓 Rated dc voltage

1C: 16V	1H: 50V	2E: 250V	3A: 1kV	3G: 4kV	3K: 8kV
1E: 25V	1J: 63V	2H: 500V	3D: 2kV	3H: 5kV	4A: 10kV
1V: 35V	2A: 100V	2J: 630V	3F: 3kV(3.15kV)	3J: 6.3kV	
	2D: 200V				

■ 標稱容量 Nominal capacitance
用3位數表示，單位pF。如下所示：
In 3 digits, unit is pF, as shown in below:
563: 0.056uF (1 uF = 1 000 nF = 1 000 000 pF)

■ 容量偏差 Capacitance tolerance

C: ±0.25pF	J: ±5%	S: +50%/-20%
D: ±0.50pF	K: ±10%	Z: +80%/-20%
	M: ±20%	P: +100%/-0%

■ 引線成型方式 Lead format

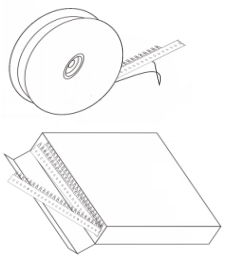
代碼 Code	腳距 Lead spacing
A	2.54mm
C	5.08mm
D	7.50mm
E	10.0mm

代碼 Code	1	2	4	5	7
腳型樣式 Lead style drawing	直腳 Straight Lead	外彎腳 Outside kink Lead	內彎腳 Inside kink Lead	平行腳 Vertical kink Lead	小單外彎腳 Mini outside kink Lead

■ 編帶包裝或腳長 Taping packing or Lead length
● Bulk (Lead length)

4: 3.5mm	9: 6.0mm	F: 18mm
5: 3.8mm	V: 7.0mm	G: 20mm
6: 4.0mm	A: 8.0mm	I: 24mm
7: 4.5mm	B: 10mm	
8: 5.0mm	E: 16mm	

● Taping
T: Reel packing 卷盤包裝
P: Ammo packing 折疊包裝



■ 包封 Coating
D: 酚醛 (黃) Phenolic (Yellow)
E: 環氧 (藍) Epoxy (Blue)

■ 温度特性 Temperature characteristics

Class 1:	CH: NP0	UJ: N750	SL: SL	DL: N3300
Class 2:	B4: Y5P	E4: Y5U	F4: Y5V	R1: X7R
Class 3:	3E: Y5U	3F: Y5V		

■ 內部識別碼 Inter identification code
內部控制碼，本規格書不作說明。
Inter control code will not be described in this an approval specifications.

■ 標誌 Marking
見規格表最後一欄
See the last column of the "DATA SHEET"

6. 測量和試驗
MEASUREMENT AND TEST

No.	項目 Item	標準 Specifications	試驗方法 Testing Method
1	工作溫度範圍 Operating temp. range	-25ºC～85ºC	下限類別溫度(Lower category temperature, LCT): -25ºC 上限類別溫度(Upper category temperature, UCT): 85ºC
2	額定電壓 Rated voltage (U_R)	50VDC	額定電壓是指在工作溫度範圍內，可連續施加在電容器上的最大直流電壓或最大交流電壓有效值或脈沖電壓的峰值 當交流電壓附加於直流電壓時，Vp-p或Vo-p（以較大者爲準）應維持在額定電壓範圍內。 The rated voltage is defined as the maximum voltage which may be applied continuously to the capacitor within the operating temperature range. When AC voltage is superimposed on DC voltage, Vp-p or Vo-p, whichever is larger, should be maintained within the rated voltage range.
3	外觀與尺寸 Appearance (APP) and Dimension	外觀形狀沒有明顯的缺點，尺寸在標準範圍內。 No marked defect on appearance form and dimensions are within specified range.	電容必須用目視檢查其明顯的缺點。 The capacitor should be visually inspected for evidence of defect. 尺寸用遊標卡尺測量。 Dimensions should be measured with slide calipers.
4	標誌 Marking	清晰易於識別。 To be easily legible.	目視檢查。 The capacitor should be visually inspected.
5	容量 (C_R) Capacitance (C_R)	44.8NF-100.8NF	容量與tan δ在25±1ºC下，使用1kHz和1Vrms下測量。 The capacitance, tan δ should be measured at 25ºC±1ºC with 1kHz and 1.0V (r.m.s.).
6	損耗角正切 Tangent of loss angle (tan δ)	0.05 max	
7	絕緣電阻 Insulation Resistance (IR)	447MΩ min	在兩導線間施加下列電壓進行測量，時間不超過1分鐘。 The insulation resistance should be measured with a test voltages of below at normal temperature and humidity and less than 1 min. of charging. 50V @ RH<70%
8	耐電壓 Testing Voltage (TV)	沒有不合格 No failure.	在電容器兩導線間施加下列測試電壓（充/放電流不大於2mA）1到5s後不被破壞。 The capacitor should not be damaged when test voltages (Charge/Discharge current ≤ 2mA) of below are applied between the lead wires for 1 to 5 sec. 75VDC
9	導線抗張強度 Terminal Tensile Strength	引線不應斷開，電容器不應破裂。 Lead wire should not be cut off capacitor should not be broken.	固定住電容器，在引線上逐步施加徑嚮拉力直至10N，並保持10±1秒鐘。 Fix the body of the capacitor and apply a tensile weight gradually to each lead wire in the radial direction of the capacitor up to 10N and keep it for 10±1 sec.
10	導線抗折強度 Terminal Bending Strengt	引線不應斷開，電容器不應破裂。 Lead wire should not be cut off capacitor should not be broken.	在引線出口處沿一個方嚮施加5N、90º的彎曲壓力，再恢復至初始狀態。之後，在2至3秒內再以相反方嚮施加一次90º的彎曲壓力。 Each lead wire should be subjected to 5N of weight and bent 90º at the point of egress, in one direction, then returned to its original position and bent 90º in the opposite direction at the rate of one bent in 2 to 3 sec.
11	可焊性 Solderability of Lead	導線必須有3/4以上的面積均勻附着焊錫 Lead wire should be soldered with uniform coating on the axial direction over 3/4 of the circumferential direction.	引線必須浸入焊料中3±0.5秒鐘，浸入深度離導線根部1.5-2.0mm。 The lead wire of a capacitor should be dipped into molten solder for 3±0.5 sec. The depth of immersion is up to about 1.5 to 2.0mm from the root of lead wires. 焊錫溫度：無鉛焊(Sn-3Ag-0.5Cu) 245±5ºC Temp. of solder: Lead Free Solder (Sn-3Ag-0.5Cu) 245±5ºC

瓷片電容器規格承認書
APPROVAL SPECIFICATION FOR DISC CERAMIC CAPACITORS

續上表
Continued on the table

No.	項目 Item		標準 Specifications	試驗方法 Testing Method
12	焊錫耐熱性 Soldering Effect	APP	沒有可見損傷 No marked defect	將導線浸入離導線根部1.5-2.0mm處、錫溫爲260±10ºC中3.5±0.5秒。 The lead wires should be immersed in solder of 260±5ºC up to 1.5 to 2.0mm from the root of terminal for 3.5±0.5 sec. 試驗後處理：電容必須存放在室溫下24小時。 Post-treatment: Capacitor should be stored for 24h at room condition.
		ΔC/C	±20%	
		IR	大於初始標準的50% More than 50% initial specified value.	
		TV	如第8項進行試驗，沒有不合格 Per Item 8.	
13	振動 Vibration Resistance	APP	沒有可見損傷 No marked defect	將電容器導線焊穩和調整振動頻率範圍爲10-55Hz、總振幅爲1.5mm，振動從10Hz到55Hz，然後再回到10Hz，大約一分鐘。 The capacitor should be firmly soldered to the supporting lead wire and vibrated at a frequency range of 10 to 55Hz, 1.5mm in total amplitude, with about a 1 minute rate of vibration change from 10Hz to 55Hz and back to 10Hz. 總時間六個小時，每兩小時在相互垂直方嚮來回三次。 Apply for a total of 6 hours, 2 hours each in 3 mutually perpendicular directions.
		C_R	如第5項進行試驗，沒有不合格 Per Item 5.	
		tan δ	如第6項進行試驗，沒有不合格 Per Item 6.	
14	温度特性 Temperature characteristics		ΔC/C: +22/-82%	電容器必須按照下列每一步驟進行測量。 The capacitance measurement should be made at each step specified in below. Stwp Temperature (±1ºC) 1 +20 2 Lower category temperature 3 +20 4 Upper category temperature 5 +20
15	耐濕負荷 Humidity Loading	APP	沒有可見損傷 No marked defect	施加下列電壓的電容保持在溫度爲40±2ºC、相對濕度爲90-95%條件下500±12小時。 Apply a test voltage of below for 500±12 hours at 40±2ºC in 90 to 95% relative humidity. 50V 試驗後處理：電容必須貯存在室溫條件下24小時。 Post-treatment: Capacitor should be stored for 24 h. at room condition.
		ΔC/C	±30%	
		tan δ	小於初始標準的2倍 Less than 200% initial specified value.	
		IR	大於初始標準的25% More than 25% initial specified value.	
		TV	如第8項進行試驗，沒有不合格 Per Item 8.	
16	高温負荷 High Temperature Load	APP	沒有可見損傷 No marked defect	在上限類別溫度相對溫度不大於50%條件下施加下列電壓 1000+48/-0小時（充/放電流小於5mA） Apply a test voltages of below for 1000+48/-0 hours at Upper category temperature with a relative humidity of 50% max. (Charge/discharge current ≤5mA) 60V 試驗後處理: 電容器應在室溫下儲存24小時。 Post-treatment: Capacitor shall be stored for 24 h at room condition.
		ΔC/C	±30%	
		tan δ	小於初始標準的2倍 Less than 200% of initial specified value.	
		IR	大於初始標準的50% More than 50% initial specified value.	
		TV	如第8項進行試驗，沒有不合格 Per Item 8.	

續上表
Continued on the table

No.	項目 Item		標準 Specifications	試驗方法 Testing Method
17	溫度循環 Temperature and Immersion Cycle	APP	沒有可見損傷 No marked defect	溫度循環試驗按以下條件進行試驗和測量 Temperature cycling shall be measured in the following test. 下限類別溫度：30分鐘 Lower category temperature: 30min 上限類別溫度：30分鐘 Upper category temperature: 30min 循環次數：5次 Cycle numbers: 5 cycles 試驗後處理: 電容器應在室溫下儲存24小時。 Post-treatment: Capacitor shall be stored for 24 h at room condition.
		ΔC/C	±20%	
		tan δ	小於初始標準的2倍 Less than 200% of initial specified value.	
		IR	大於初始標準的50% More than 50% initial specified value.	
		TV	如第8項進行試驗，沒有不合格 Per Item 8.	

7. 包裝和儲存
PACKAGING AND STORAGE

7.1. 包裝
PACKAGING

盒裝編帶品，每盒2000pcs（每箱20 000pcs）。
Taping of ammo packing, 2000 pcs/box (20 000 pcs/carton)
散包包裝，每包1000pcs（視瓷片大小不等，每箱20 000～100 000pcs）。
Bulk packing, 1000 pcs/bag (Depending on the disc size, each carton is 20 000～100 000pcs)

7.2. 貯存條件
STORAGE ENVIRONMENT

電容器絕緣包封層不是完美的密封形式，因此，請勿將電容器存放在腐蝕性氣體中，尤其是存在氯氣、硫氣、酸、城、鹽等場所，同時應防潮。
The insulating coating of capacitors does not form a perfect seal; therefore, do not use or store capacitors in a corrosive atmosphere, especially where chloride gas, sulfide gas, acid, alkali, salt or the like are present. And avoid exposure to moisture.
電容器應存放在溫度及相對濕度分別不超出5～40ºC及15～70%範圍的場所。
Store the capacitors where the temperature and relative humidity do not exceed 5 to 40 degrees centigrade and 15 to 70%.
請在6個月內使用電容器。超過6個月，在使用前確認其可焊性和電容量。
Use capacitors within 6 months after delivered. for more than 6 months, confirm the solderability and capacitance before use.

8. 測量和使用注意事項
MEASURING AND APPLICATION NOTICE

8.1. 測量注意事項
Measurement notice

請在以下條件下測量。
Please measure under the following conditions.

8.1.1. 標準大氣條件
Standard atmospheric conditions

除非另有規定，所有試驗和測量應按在IEC 60068-1的5.3中規定的試驗用標準大氣條件下表進行。
Unless otherwise specified, all tests and measurements shall be made under standard atmospheric conditions for testing as given in 5.3 of IEC 60068-1.

溫度 Temperature	相對濕度 Relative humidity	氣壓 Air pressure
15ºC～35ºC	25%～75%	86kPa～106kPa

在進行測量之前，電容器應在測量溫度下存放足夠時間，以使整個電容器都達到這一溫度。爲此目的，規定與試驗後恢復時間同樣的時間，通常是足夠的。
Before the measurements are made, the capacitor shall be stored at the measuring temperature for a time sufficient to allow the entire capacitor to reach this temperature. The period as prescribed for recovery at the end of a test is normally sufficient for this purpose.

在標準大氣條件下進行測量，其測量結果存在爭議時應采用仲裁溫度（見8.1.3）重復測量。
Test and measurement shall be made under standard atmospheric conditions for testing, in the event of a dispute, the measurements shall be repeated using one of the referee temperatures (as given in 8.1.3).

當按某一順序進行試驗時，一個試驗的最後測量可以作爲下一試驗的初始測量。
When tests are conducted in a sequence, the final measurements of one test may be taken as the initial measurements for the succeeding test.

在測量期間，不應使電容器受到氣流、陽光直射或可能引起誤差的其他影響。
During measurements the capacitor shall not be exposed to draughts, direct sunlight or other influences likely to cause error.

8.1.2. 恢復條件
Recovery conditions

除非另有規定，恢復應在試驗用標準大氣條件（見8.1.1）下進行。
Unless otherwise specified recovery shall take place under the standard atmospheric conditions for testing (8.1.1).

如果恢復必須在嚴格控制的條件下進行，應采用IEC 60068-1中5.4.1的控制條件。
If recovery under closely controlled conditions is necessary, the controlled recovery conditions of 5.4.1 of IEC 60068-1 shall be used.

除非有關規範另有規定，恢復時間應爲1h～2h。
Unless otherwise specified in the relevant specification, a duration of 1 h to 2 h shall be used.

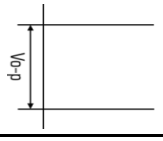
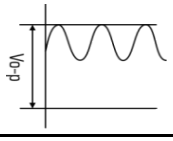
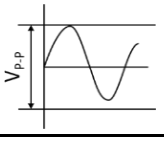
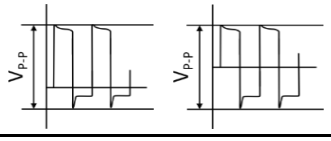
8.1.3. 仲裁條件
Referee conditions

在仲裁情況下，應選用IEC 60068-1中5.2中規定的仲裁試驗用標準大氣條件。
For referee purposes, one of the standard atmospheric conditions for referee tests taken from 5.2 of IEC 60068-1, as given in table 1 below, shall be selected:

溫度 Temperature	相對濕度 Relative humidity	氣壓 Air pressure
25ºC±1ºC	48%～52%	86kPa～106kPa

8.2. 工作電壓
Operating voltage

嚮電容器施加的電壓切勿超過額定電壓。
The voltage applied to the capacitor must not exceed the rated voltage.

電壓 Voltage	直流電壓 DC Voltage	直流+交流電壓 DC+AC Voltage	交流電壓 AC Voltage	脈沖電壓 Pulse Voltage
測量位置 Positional Measurement				

在交流電路或紋波電流電路中使用直流額定電壓電容器時，請務必將外加電壓的Vp-p值或包含直流偏置電壓的Vo-p值維持在額定電壓範圍內。
When DC-rated capacitors are to be used in AC or ripple current circuits, be sure to maintain the Vp-p value of the applied voltage or the Vo-p which contains DC bias within the rated voltage range.
若嚮電路施加電壓，開始或停止時可能會因諧振或切換產生暫時的異常電壓。請務必使用額定電壓範圍包含這些異常電壓的電容器。
When the voltage is applied to the circuit, starting or stopping may generate irregular voltage for a transit period because of resonance or switching. Be sure to use a capacitor with a rated voltage range that includes these irregular voltages.

8.3. 過電壓影響
Overvoltage effects
施加到電容器的過電壓可能會導致電容器內部介質層擊穿而引起電路短路。
The overvoltage applied to the capacitor may cause the dielectric layer of the capacitor to break down and cause a short circuit.
擊穿前的可持續時間取決於施加電壓和周圍溫度。
The duration before the breakdown depends on the applied voltage and the ambient temperature.

8.4. 焊錫
Soldering
當在PCB/PWB焊錫這個產品時，不要超過電容器的焊錫耐熱性標準。過度的熱量會使電容器內部焊錫熔化，可能導致熱沖擊而使陶瓷介質出現暗裂。
When soldering this product to a PCB/PWB, do not exceed the solder heat resistance specifications of the capacitor. Subjecting this product to excessive heating could melt the internal junction solder and may result in thermal shocks that can crack the ceramic element.



注意：请不要使用于双波峰焊锡中，如果需要使用于双波峰焊锡，请提前通知我公司。
Note: please do not use in double wave soldering. If you use double wave soldering, please inform our company in advance.

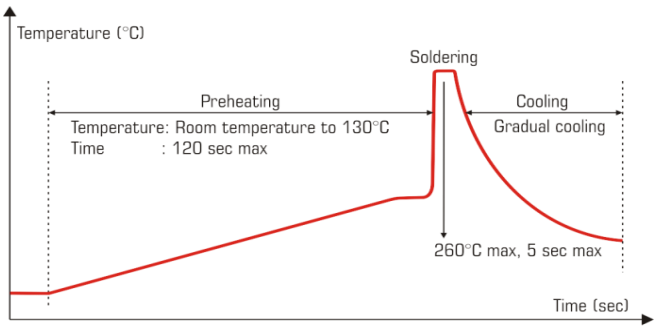
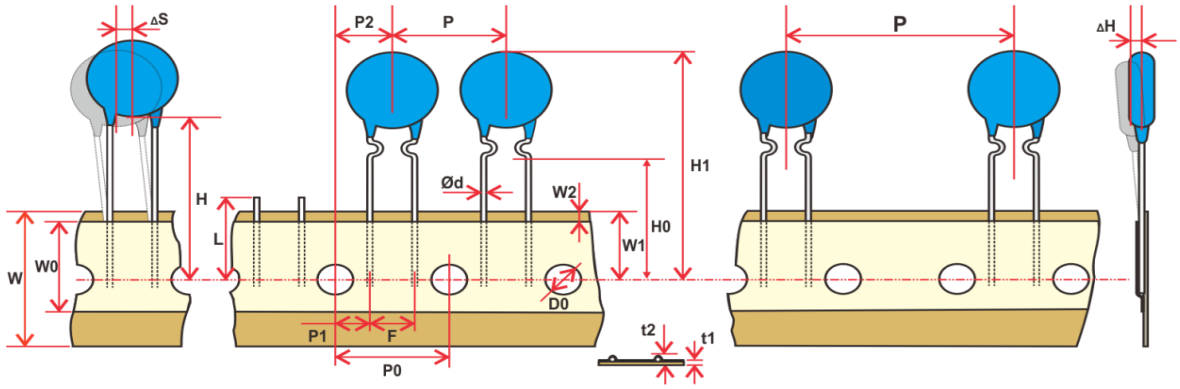


Fig.: Wave-soldering temperature-time profile to recommend

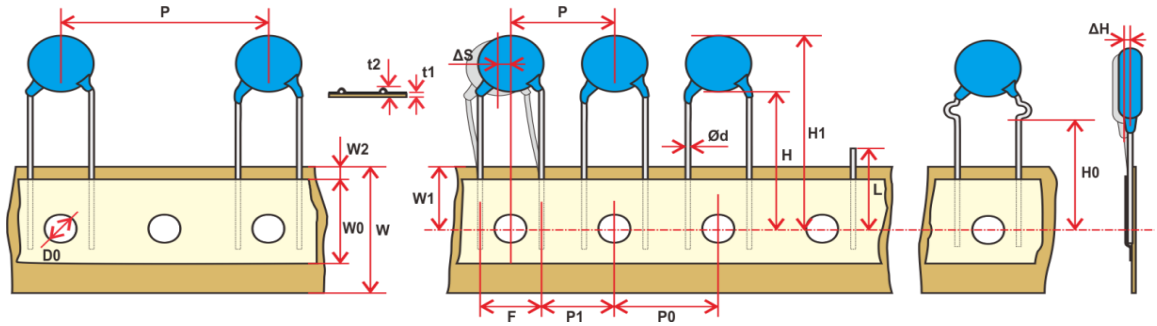
當使用烙鐵進行手工焊錫時，應該遵照下列條件：
When soldering capacitor with a soldering iron, it should be performed in the following conditions.
焊錫溫度：320ºC最大
Temperature of iron-tip: 320 degrees C. Max.
烙鐵頭：不超過40W
Soldering iron wattage: 40W max.
焊錫時間：不超過3.0秒
Soldering time: 3.0 sec. Max.

9. 編帶尺寸規格
TAPING SPECIFICATIONS

■ Method 1 : sprocket hole between parts



■ Method 2: sprocket hole between leads



Item		Symbol	Specification (mm)	Remarks
Lead-wire diameter		Ød	0.4±0.1	
Pitch of component		P		
Feed hole pitch		P0		Cumulative pitch error: 1.0mm/20 pitch
Feed hole center to lead		P1		
Hole center to component center		P2		
Lead-to-lead distance		F	2.54±0.8	
Component alignment		Δh	≤2.0	
Deviation along tape, Left or right		ΔS	≤1.3	
Tape width		W	18.0+1.0/-0.5	
Hold-down tape width		W0	≥7.0	
Hole position		W1	9.0+0.75/-0.5	
Hole-down tape position		W2	≤3.0	
Height of component from tape center	Straight lead	H	18.0+2/-0	
	Kinked lead	H0	16.0±0.5	
Component height		H1	≤32.25	
Feed hole diameter		D0	4.0±0.3	
Total tape thickness		t1	≤0.9	Ground paper: 0.5±0.1mm
Total thickness, tape and lead wire		t2	≤1.5	
Length of snipped		L	≤11.0	